

VERSION WITH MARKINGS TO SHOW CHANGES MADE

SPECIFICATION:

Specification at page 5, line 11:

~~The 1st invention~~ One aspect of the present invention is an optical recording apparatus comprising:

Specification at page 5, line 20:

~~The 2nd invention~~ Another aspect of the present invention is an optical recording apparatus ~~according to 1st invention~~, wherein said detection means detects the detected aberration amount as an aberration detection signal S, and wherein said control means controls the output of the light source so that, when the output of the light source necessary for the recording under a condition where $S=0$ is P_0 , the output is $P_0/(1-K \cdot S^2)$ for a predetermined constant K.

Specification at page 6, line 3:

~~The 3rd invention~~ Still another aspect of the present invention is an optical recording apparatus ~~according to 1st invention~~, wherein said aberration amount is substantially a spherical aberration amount and/or a coma aberration amount.

Specification at page 6, line 7:

~~The 4th invention~~ Yet still another aspect of the present invention is an optical recording apparatus ~~according to 3rd invention~~, wherein said detection means is capable of detecting the spherical aberration amount and the coma aberration amount, and outputs the spherical aberration amount as a spherical aberration detection signal S_1 and outputs the coma aberration amount

as a coma aberration detection signal S_2 , and wherein said control means controls the output of the light source so that, when the output of the light source necessary for the recording under a condition where $S_1 = S_2 = 0$ is P_0 , the output is $P_0/(1-K \cdot (S^2 + S_2^2))$ for a predetermined constant K .

Specification at page 6, line 18:

~~The 5th invention~~ Still yet another aspect of the present invention is an optical recording apparatus ~~according to 3rd invention~~, wherein said information recording is performed on an optical disk, wherein said detection means detects and outputs a tilt amount of the optical disk as the signal associated with the aberration amount, and wherein the coma aberration amount is calculated based on a predetermined relationship that holds between the coma aberration amount and the tilt amount.

Specification at page 7, line 1:

~~The 6th invention~~ A further aspect of the present invention is an optical recording apparatus ~~according to 2nd invention~~, wherein said information recording is stopped when $1/(1-K \cdot S^2) > 1.5$.

Specification at page 7, line 4:

~~The 7th invention~~ A still further aspect of the present invention is an optical recording apparatus ~~according to 1st invention~~, wherein said detection means detects the detected aberration amount as an aberration detection signal S , and wherein when the aberration detection signal and the output of the light source obtained by initial learning in the recording are S_i and P_i , respectively, said control means controls the output of the light source so that the output is $P_i(1-K \cdot S_i^2)/(1-K \cdot S^2)$ for a predetermined constant K .

Specification at page 7, line 13:

~~The 8th invention~~ A yet further aspect of the present invention is an optical recording method of controlling a light source for generating a light spot used for information recording, said method comprising:

Specification at page 7, line 22:

~~The 9th invention~~ A still yet further aspect of the present invention is a program for causing a computer to function as all or part of the control means of the optical recording apparatus ~~according to any one of 1st to 7th inventions.~~

Specification at page 8, line 1:

~~The 10th invention~~ An additional aspect of the present invention is a program for causing a computer to perform all or part of the control step of the optical recording method ~~according to 8th invention.~~

Specification at page 8, line 4:

~~The 11th invention~~ A still additional aspect of the present invention is a medium carrying a program for causing a computer to function as all or part of the control means of the optical recording apparatus ~~according to any one of 1st to 7th inventions,~~ said medium being computer-processable.

Specification at page 8, line 9:

~~The 12th invention~~ A yet additional aspect of the present invention is a medium carrying a program for causing a computer to perform all or part of the control step of the optical recording method ~~according to 8th invention,~~ said medium being computer-processable.